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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		onofTransmittalofInternati				
OPP020536KR			Report (Form PCT/IPEA/4	116)			
	International filing date(day/mo	•	Priority date (day/month	• •			
PCT/KR2002/001782	19 SEPTEMBER 2002 (19 JULY 2002 (19.07.2	2002)			
International Patent Classification (IPC) or national classification and IPC IPC7 G02F 1/1337							
Applicant SAMSUNG ELECTRONICS O	O., LTD. et al						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of3 sheets, including this cover sheet. 							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of	sheets.						
3. This report contains indications rel	ating to the following items:						
I X Basis of the report							
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention							
citations and explanat	under Article 35(2) with regard to cions supporting such statement	o novelty, inven	tive step or industrial appl	icability;			
VI Certain documents cit	•						
VII Certain defects in the	international application						
VIII Certain observations	on the international application						
Date of submission of the demand	Date o	f completion of t	his report				
17 FEBRUARY 2004 (17.02.2004)	10 NOVEMB	ER 2004 (10.11.2004)				
Name and mailing address of the IPEA/K		rized officer					
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, De Republic of Korea	nainan 202 701	LEE, Jong Joo	•				
Facsimile No. 82-42-472-7140		one No. 82-42-	481-8192	A Back			

I	Basi	is of the report					
1.	With	regard to the elements of the international application:*					
	X	the international application as originally filed					
	一	the description:					
		pages	, as originally filed				
1		pages, filed with the letter of	, filed with the demand				
	_	the claims:					
	ш	pages	, as originally filed				
	pages, as amended (together with any statment) under Article 1						
		pages, filed with the letter of	, filed with the demand				
l		the drawings:					
	ш	pages	, as originally filed				
		pages	, filed with the demand				
		pages, filed with the letter of					
	ш	the sequence listing part of the description: pages	oo originally, filed				
			, filed with the demand				
		pages, filed with the letter of					
2.	the i	h regard to the language, all the elements marked above were available or furnished to this Authinternational application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language Engl the language of a translation furnished for the purposes of international search (under Rule 23 the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examples.	ish which is 3.1(b)).				
3.	or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
	H	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.					
	\vdash	furnished subsequently to this Authority in computer readable form					
		The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furnished. The statement that the information recorded in computer readable form is identical to the been furnished.					
4.	П	The amendments have resulted in the cancellation of:					
	—						
		the description, pages the claims, Nos.					
		the drawings, sheets					
5.		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**					
	in this	acement sheets which have been furnished to the receiving Office in response to an invitation w s opinion as "originally filed." and are not annexed to this report since they do not contain 10.17).	nder Article 14 are referred to amendments (Rules 70.16				
** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.							

٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-17	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-17	NO
	Industrial applicability (IA)	Claims	1-17	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1 : KR 10-1999-79365 A D2 : KR 10-2000-11230 A

Novelty

The invention as defined in the claims is a liquid crystal display which includes a first cutout pattern and a second cutout pattern wherein width of the domains is equal to or less than 30 microns.

None of the cited prior art describes LCD which have cutout patterns where the width of the domains is equal to or less than 30 microns.

Therefore claims 1-17 fulfill the requirements of Article 33(2) PCT.

Inventive Step

D1 describes a multi-domain VA-LCD wherein pixel electrode and common electrode are partitioned using partitioning members. The pixel electrode and common electrode respectively have slit patterns for partitioning. D2 describes a multi-domain LCD wherein the pixel electrode is partitioned by forming slit cutout pattern.

The inventive step of claims 1-17 seems to rely on the upper and lower substrates which have domain partitioning members respectively. But in D1, both common electrode and pixel electrode have domain partitioning menebers. In D2, slit patttherns are used for domain partitioning.

The above citations when combined as would be obvious to a person skilled in the art, disclose all of the features of the claims.

Therefore claims 1-17 do not fulfill the requirements of Article 33(3) PCT.

Industrial Applicability Claims 1-17 fulfill the requirements of Article 33(4) PCT.